

Technical Report 1076

Multirater Assessment Process— A Literature Review

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FOREWORD

The United States Army is concerned with continuous self-development of all soldiers. Self-development often begins with an accurate assessment of strengths and weaknesses. This literature review was conducted to examine the potential of multirater assessments, also known as 360-degree evaluations, for systematic use by the Army. Possible utilization of multirater assessments includes applications which would promote accurate self-assessment, encourage developmental growth in areas relevant to leadership, and reinforce organizational values. A growing literature on the use of multirater assessments in commercial organizations is reviewed and discussed in this report.

This review was completed by the ARI Research Unit at Fort Leavenworth in conjunction with the Leadership Research and Assessment Division of the Center for Army Leadership (CAL), and the results were briefed to the Director, CAL, February 1997.

ZITA M. SIMUTIS
Technical Director

MULTIRATER ASSESSMENT PROCESS - A LITERATURE REVIEW

EXECUTIVE SUMMARY

Research Requirement:

To provide background information for the multirater survey project promulgated by the Deputy Chief of Staff for Personnel.

Procedure:

Major databases were searched for articles and reports on the use and effectiveness of multirater feedback evaluation systems. These reports and articles were reviewed and analyzed, and major findings and issues are reported.

Findings:

A review of the current literature on multirater feedback evaluations indicates that this process could increase self-awareness, thereby encouraging self-development. However, more empirical data are necessary to conclude that multirater feedback has a lasting and beneficial impact on behavior and performance.

Utilization of Findings:

The literature review will be used by ARI, the Center for Army Leadership, and other organizations exploring the possible utility of multirater assessment as a tool for self-development within the United States Army.

MULTIRATER ASSESSMENT PROCESS - A LITERATURE REVIEW

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MULTIRATER ASSESSMENT PROCESS - A LITERATURE REVIEW

Introduction

The United States Army faces dramatic organizational challenges brought about by global political changes, increased operating tempo, constrained resources and undefined missions (Horner, 1995). Similar challenges in the corporate world have emphasized the need for quick and efficient adaptation, more teamwork, more accountability, and improved performance at less cost. In response to quickly changing needs, many organizations are turning to an employee evaluation and feedback process which helps to direct employee professional development while promoting the organizational culture most conducive to meeting organizational needs. This evaluation process is the multirater feedback process, which involves receiving performance feedback from multiple perspectives (i.e., from subordinates, peers, self, supervisors and possibly customers).

The purpose of this paper is to report research findings relevant to the multirater feedback concept and to discuss the implications of this body of research for professional development of Army leaders. The evolution of the multirater process will be reviewed. The multirater method will be compared to more traditional methods of assessment, and benefits and objectives will be discussed. Finally, recommendations and caveats for implementation within the Army professional development system will be discussed.

Evolution of the Multirater Feedback Concept

The multirater feedback process, sometimes referred to as a 360-degree assessment, is rooted in both the developmental and the performance appraisal fields. The use of performance appraisals began in the late 1800's as production processes became mechanized during the Industrial Age. At first, supervisors used trait checklists for employee performance appraisals. These eventually evolved into various scales and behavioral descriptions which were designed to improve the quality of such appraisals. During the 1960's and 70's the most prevalent form of performance appraisal was a comparison of individual results with organizational goals and strategies (i.e., management by objectives). The use of supervisor feedback for the explicit purpose of employee personal and career development did not become popular until the late 1980's. Up until this point, supervisor feedback was mainly perceived as evaluative, not developmental (Edwards & Ewen, 1996).

The total quality management (TQM) initiative is most commonly credited with originating the use of multirater feedback for developmental appraisals. This initiative took organizational surveys and extended them into division level surveys, then department level and finally service representative level, (i.e., customer service) surveys. Now multirater feedback from subordinates, peers, self, superiors and customers is used by organizations that have become concerned with career development, diversity management, fair reward decisions, accurate and valid performance measures, and legal protection for decisions relating to personnel.

Generally, one is evaluated on the particular competencies which are highly valued within his or her organization and which impact individual performance (e.g. communication skills, creativity). One potential outcome of a multirater evaluation is that organizational values, which guide behavior and decision-making at all levels, can be disseminated and reinforced throughout the organization. A second and equally important potential consequence of this process is that individual employees can gain an increased self-awareness of the competencies related to organizational values. With an increased self-awareness, employees are empowered to develop the skills and competencies that are important to the organization, and which help to guarantee a successful career track.

Currently, multirater feedback systems are an amalgamation of several traditional feedback sources. Thus, it is instructive to examine the relevant empirical literature regarding those sources. The following section reviews supervisor appraisal feedback, peer review feedback, upward feedback research and self-assessment feedback.

Traditional Feedback Methods

Supervisor Appraisal

Research has shown that supervisor-only feedback tends to be inflated, time-consuming, and does not differentiate levels of performance nor motivate employees to improve (Edwards & Ewen, 1996). Supervisor appraisals and multirater feedback share common problems, such as questionable validity and rating bias (e.g., response consistency, leniency, halo and stereotyping) (Borman, 1974). However, supervisor assessments have additional problems, including favoritism, politics, and varying degrees of care when making assessments. No one enjoys being the bearer of bad news and that includes supervisors, who sometimes skirt issues related to employee weaknesses and poor performance. Generally, supervisors avoid doing evaluations for as long as they can, and eventually provide only flat, non-specific information (Edwards & Ewen, 1996).

Also, supervisors may have insufficient opportunity or motivation to observe employee performance. Schneier & Beatty (1978) found that supervisors may draw inferences about one's ability to lead or manage based on the productivity of that person's work unit, as opposed to actually observing that person's individual behavior. While productivity of the work unit indicates to the supervisor *what* is getting done, it does not indicate *how* things are getting done. How things are being done may, or may not, mesh with the vision and values of the organization as a whole.

Traditional performance appraisal and the multirater feedback process differ in two important ways. First, performance appraisals are conducted primarily for evaluation and have organizational consequences (e.g., pay raises, promotions, or transfers). A multirater assessment is usually conducted to provide guidance for employee development and performance improvement. Secondly, supervisory ratings provide only one source of evaluation data, whereas multirater feedback provides data from multiple sources. Therefore, it is unlikely that a single person can have undue influence in the feedback the employee receives. Multirater feedback

recognizes the complexity of management and the value of input from different sources (Becker & Klimoski, 1989). Additionally, multiple ratings allow testing of consistency of leader behaviors and reliability of the information gathered.

Peer Appraisal.

Lateral feedback has been shown to be reliable (peers are consistent with one another), valid (highest rated people eventually receive the promotions), and perceived as highly credible to those who receive the feedback. Nonetheless, in smaller organizations, there may be a shortage of peers with sufficient contact to provide quality feedback. Generally, while peers tend to provide honest feedback (especially when the feedback is for developmental purposes only) there is always the fear that a peer may provide false negative information in an attempt to derail a target's career, or to promote their own career. While feedback from a single peer has its shortcomings, input from multiple sources makes it easier to spot false negative feedback.

Upward Feedback.

Research indicates that upward feedback (subordinate evaluations) is a better predictor for performance improvement than self and supervisor assessment (Wilson, O'Hare & Shipper, 1990). Subordinate assessments provide important details on how supervisors achieve results, and on the reasons why communication failures occur (Berman & Hellweg, 1988). Subordinate assessments have also been associated with improved teacher performances (Tuckman & Oliver, 1968), and with eliciting modest changes in managerial behavior (Hegarty, 1974; Van Velsor, Ruderman, and Philips, 1991). Subordinates are in an excellent position to view and evaluate leadership behaviors. Although subordinates may provide information of slightly higher quality than supervisors or peers, organizational cultures with a highly structured hierarchical system may find the use of subordinate reports incompatible with organizational values. Additionally, there may be fears that subordinates may "gang up" against a particular ratee, or that the ratee may retaliate against a source of negative feedback. Therefore, anonymity and other safeguards are essential (Edwards & Ewen, 1996).

According to Bernardin, Dahmus & Redmon (1993), managers and supervisors have several concerns regarding upward (subordinate) feedback. Such concerns include: 1) supervisors may focus on pleasing subordinates in an effort to get higher appraisals, 2) the authority of the manager could be undermined by the pressure of upward appraisal and the implications of low evaluations for the manager's status within the organization, 3) subordinates lack the ability, aptitude, training or necessary job information to provide valid ratings, 4) subordinates may be reluctant to be candid about their bosses for fear of repercussions, or they may inflate ratings in order to gain points with the manager, 5) employees who are being pushed the hardest by their supervisors may rate those supervisors more harshly, 6) managers may also be uncertain about how to interpret subordinate appraisal relative to ratings from other sources , such as their boss. Most of these concerns can be dealt with by instituting safeguards that ensure confidentiality, and with employee training in giving and receiving feedback.

Self Assessment.

In order to succeed in an organization, individuals must continuously self-assess their performance, skills and potential (Ashford, 1989). Several studies indicate the self to be the most available and trustworthy source of feedback (Greller & Herold, 1975; Hanser & Muchinsky, 1978). Simply participating in a self-evaluation makes one increasingly self-aware, more accepting of feedback from others, and more committed to goal setting (Ashford, 1989). Additionally, self-ratings can promote personal development, improve communication between supervisors and subordinates, and clarify differences of opinion between supervisors and other managers (Cummings & Schwab, 1973).

Carver & Scheier (1981) suggest that control theory provides the framework for understanding the self-regulation processes. This theory proposes that individuals survive by a continual process of matching their behavior to a goal or standard. Goals are obtained when individuals accomplish the following tasks: 1) setting standards for their behavior, 2) detecting discrepancies between their behavior and those standards (self-assessment), and 3) enacting behaviors to reduce these discrepancies.

Ashford (1989) adds two self-assessment tasks to this list for the individual *within an organization*. Specifically, individuals must be able to assess whether the standards they have chosen to guide their behavior actually enable goal attainment. Secondly, individuals must develop proficiency in seeing and assessing their behavior in a manner consistent with how others perceive and evaluate it. Effective self-regulation in organizations requires attention to issues of validity of one's self-assessment with respect to the assessments of others (Ashford, 1989).

Another perspective, taken by symbolic interactionists, argues the relevance of others' influence in the assessment of self (Cooley, 1902; Mead, 1934). The basic tenet of their theory is that one develops a self-concept and makes self-assessments based on his/her beliefs about how others perceive and evaluate them. Accordingly, one is better able to predict and control social interactions if they are able to see themselves as others see them (Mead, 1934).

Understanding and anticipating others' assessments is crucial for an individual working within an organization. Given that only the individual is fully aware of any situational constraints on his/her behavior, self-assessment could be more accurate than the subjective ratings of others, but it is the other's assessments which have important consequences for the individual. It should be noted that most research regards other's ratings as the objective criterion (i.e., one is an accurate self-rater only if his/her ratings match the ratings given by others).

Most research on self-assessment indicates that compared to ratings by others, self-assessments are often inflated, unreliable, invalid, biased and inaccurate (Yammarino & Atwater, 1993). Van Velsor, Ruderman, and Young (1991) reported that only 10% of managers studied saw themselves as others saw them. They also found that overrating self seems to be the most common profile. Prior research indicates that regardless of the dimension being measured or the sources of other ratings, the average self-ratings tend to be more favorable than other's ratings (Ashford, 1989; Harris & Schaubroeck, 1988; Landy & Farr, 1980; Mabe & West, 1982;

Thornton, 1980; and Wohlers & London, 1989). Furthermore, a literature review conducted by Mabe and West (1982) indicates that the average correlation between self-ratings and the accuracy criteria was small. Additionally, Shrauger and Schoeneman (1979) reviewed 50 studies on the congruencies between self and others' evaluations and found that about one-half of the studies showed no correlation at all, and the majority of the studies showed either significant but low correlations or ambiguous results. Additionally, their research showed modest to strong correlations between individuals' perceptions of themselves and the way they *assumed* others saw them. Finally, a significant correlation was found between individuals' views of how others saw them and how others *actually* saw them.

Why does self-assessment inaccuracy occur?

According to Ashford (1989) self -assessment inaccuracy may occur because of three common difficulties individuals experience during the self-assessment process. First individuals must be able to obtain the information necessary to assess their performance accurately and they must interpret this information honestly. Additionally, they must balance the desire to understand what they should be doing and how well they have done with the costs to the ego that they suffer by hearing negative feedback. Furthermore, individuals must obtain standard feedback information within a social environment in which information seeking may have particularly negative symbolic meaning as a sign of weakness or insecurity.

Accurately rating one's self is not an easy task. However, supplementing self-assessments with feedback from others should increase self-awareness of strengths and weaknesses. Consistent with the symbolic interactionist perspective, research by Van Velsor et. al. (1991), indicates that one month after attending a management development program and receiving initial feedback, about 80% of managers modified their self-assessment in the expected direction on one or more scales after feedback from others.

Implications of inaccurate self-assessments

At least two studies (Bass & Yammarino, 1991; and Atwater & Yammarino, 1992) indicate that inaccurate self-raters tended to be poorer performers than people who rated themselves as others rated them. According to Bass and Yammarino (1991), individuals with inaccurate self-assessments will misdiagnose their strengths and weaknesses. Both inflated and deflated self-assessments can adversely affect job-relevant decisions. Inflated self-assessments are associated with career derailment (McCall & Lombardo, 1983). Research indicates that derailment may result because those with inflated self-assessments have self-aspirations and expectations which exceed others' perceptions of their capabilities. Conversely, those who under-estimate their abilities and skills will tend to set a low aspiration level and will underachieve (Bandura, 1982). According to Dweck and Leggett (1988), the effects of deflated self-assessment may be mediated by how individuals view a task - as either a performance goal or as a learning goal. Individuals with performance goals seek favorable judgments of their competence; whereas, individuals with learning goals seek to increase their competence. Individuals with low self-assessments and learning goals are more likely to put effort into a task than the individuals with low self-assessment and performance goals.

Another variable possibly mediating the relationship between deflated self-assessment and performance is task understanding. Underestimation of one's understanding of the task may lead to excessive information-seeking, which takes away from the time to complete the task. Overestimation of task understanding may lead to a failure to perform the task correctly.

Implications of accurate self-assessments

Accurate self-assessment is associated with numerous benefits for the individual and the organization. For instance, Bandura (1977), proposed that self-assessment of aptitude and skills influence an individual's decisions about how to allocate his/her efforts, how intensely to work, and how long to persist in the face of challenges.

Individuals with accurate self-assessments are in a better position to take corrective actions, such as increasing effort or changing task strategies when needed. If individuals believe they are doing fine, when in fact, they are not, they are unable to make the necessary corrections to their behavior (Nilsen & Campbell, 1993).

McCauley and Lombardo (1990) found that self-awareness was positively related to superiors' assessments of promotability - the more accurate the self-assessment, the more likely an individual would be to be promoted. According to Bass and Yammarino (1991) naval officers with more accurate self-perception attained higher ranks and were rated as more promotable by their superiors

A process like three hundred sixty degree assessment, which is thought to enhance self-assessment accuracy, offers an improved alternative. Although any of the traditional feedback methods have associated benefits, most people find the combined feedback from their supervisors, peers, and subordinates highly motivating. Individuals can discount feedback from a supervisor (or any one source), but hearing the same constructive criticism from peers and subordinates with whom he/she has personally worked is more likely to motivate improvement.

Benefits and Objectives of the Multirater Feedback Process

A properly implemented multirater assessment enhances employee development and provides an organizational culture that defines itself as: more empowering, team oriented, productive, participative, and as offering equal opportunity for its members to succeed and advance. Researchers have documented the numerous advantages of multiple rater systems, including the following: enhanced ability to observe and measure various job facets (Borman, 1974), greater reliability, fairness, and ratee acceptance (Latham & Wexley, 1994), enhanced communications and performance (London, Wohlers & Gallagher, 1990; Bernardin & Beatty, 1987), more input for merit evaluation and compensation adjustment (McEvoy & Buller, 1987) and improved defensibility of the performance appraisal program from a legal standpoint (Bernardin & Beatty, 1984).

For most organizations, the objectives of the multirater process include:

- developing an individual to his/her full potential
- aligning individual and team behavior with organizational vision and values
- focusing on competency based rewards
- providing fair and accurate performance measures
- supporting a commitment to continued learning
- reinforcing and communicating other organizational initiatives
- stimulating an organization's employees to improve particular skills and essential competencies
- enhancing employees' awareness of strengths and developmental need

Features of an Effective multirater Instrument and Process

The advantages of a multirater assessment process will only be realized if a number of critical issues are addressed. The following section is a discussion of those issues. Note that the particular emphasis during development and implementation may vary somewhat depending on the organization's stated objectives . The use of 360 assessments as part of an employee evaluation process, for example, will require particular attention to a match between assessment items and job performance standards. However, the following concerns must all be addressed to some extent in any multirater assessment implementation.

Effective Implementation depends on:

- A relevant assessment instrument
- Involvement of target audience
- Ensuring confidentiality
- Training for participants
- Continuing review of the process
- Follow-up support for self development

1. A relevant assessment instrument: developing competency items

Often the most difficult task in a multirater feedback project is to identify an organization's core competencies, and how they can be communicated in a survey. According to Edwards and Ewen (1996), the best way to select competencies for the survey is to organize a focus group whose job is to answer the question: " What are the critical competencies our organization will need in the future to sustain our competitive advantage? ". Within the Army, there are doctrinal leadership competencies which can be used as a

- Do the competencies match the organization's vision and values?
- Is the competency set complete?
- Is there a focus on critical behaviors and skills that differentiate the organization in the marketplace?
- Is the organization's common language used?
- Is simple language that all members of the organization understand used?
- Is similar content grouped together, such as competencies associated with teamwork?
- Is the competency set simple and short?

guide to develop the items of a leadership assessment instrument. Examining established doctrine is an excellent place to start when determining important skills and behaviors that are of value to an organization. As a general rule, competencies should be written clearly, in the active voice, and be brief. Competencies should be defined with illustrative behaviors. Recently, the Army

Research Institute developed the Leader Azimuth Check which includes items based directly on new leadership doctrine. For instance, the new doctrine indicates that planning and organizing is of critical importance to the Army. These competencies are defined with statements such as: “develops effective plans to achieve organizational goals”, “anticipates how different plans will look when executed”, and “sets clear priorities”.

Finally, considering that individuals generally receive feedback only on the competencies specified by the instrument, a multirater assessment instrument can determine and potentially restrict the feedback received. Even in cases where free-text input is allowed, written evaluative comments will tend to address the competencies contained in the instrument. For example, if there are no items concerning an individual’s integrity, then no feedback on this topic will be generated for the individual receiving feedback.

2. Involvement of the target audience

In order to maximize the relevance and utility of a multirater instrument, all involved members should participate in its development. Those

- A cross-functional set of employees are surveyed
- Functional users review the survey
- The survey is pretested to assess readability, completeness, and clarity
- The survey is refined based on user experience

being evaluated by the standards they set may have especially insightful input. Additionally, the entire 360 process should involve all members of the organization including top executives. The organization should rely on research-based protocol for collecting and scoring data. The selection teams (i.e., the group of people providing feedback) should consist of at least four respondents in addition to the immediate supervisor and self. Finally, an understandable process that is communicated clearly to all is a critical feature to the success of a multirater assessment program.

3. Ensuring confidentiality

During the data collection process, anonymity is an important safeguard ensuring accuracy of responses. Anonymity is utilized so that the source of an individual’s feedback is not identifiable in any manner by that individual. If respondents do not feel confident that their responses will remain confidential, they may provide uniformly inflated evaluations, or they may refuse to participate at all. Results from a follow up survey, after a multirater feedback procedure was implemented, indicated that 24% of respondents would have rated their bosses differently if the ratings had not been anonymous (London et. al., 1990). The end result of not protecting anonymity is that those who provide the feedback do not trust the process, and those who receive the feedback do not view the feedback as credible (Edwards & Ewen, 1996).

- A source outside of the organization scores the assessment and completes the feedback report
- Feedback is provided only when there is more than one respondent

4. Training for participants

Training in providing and receiving feedback is critical to the success of a multirater feedback program. Besides the obvious value of having organizational members accurately completing forms, there are added benefits of training. Training can highlight the advantages of a 360, thereby instilling confidence in the process. Moreover, training sets users at ease with the process.

- An introduction to the concept of multirater feedback is provided to all employees
- An explanation for why the organization is adopting the process is provided
- The various steps and safeguards are clarified
- Employees are trained in how to complete the feedback surveys, how to interpret their results, how to accept feedback constructively and in how to follow up with personal plans of action

5. Continuing review of process and instrument

Research indicates that the process for conducting a 360 degree assessment must be formalized to ensure fairness and accuracy. Informal systems are easy and fast to implement, however they fail to provide sufficient safeguards to ensure fairness and are more likely to multiply rather than reduce error in the system. (For a detailed discussion of safeguards that can be practiced with a 360, see Edwards & Ewen, 1996). The dangers of an informal system involve reported false information that may appear credible and which may inappropriately impact an employee's self-perception and/or career. Furthermore, an informal process with its associated problems may negatively influence one's willingness to participate in a fair and formalized, or structured, 360 feedback system at a later date (Edwards & Ewen, 1996).

- The process provides sufficient safeguards
- An appeals process is included (especially if the 360 is used for performance appraisal versus developmental purposes only)
- The process is formal

6. Follow-up

Follow-up is a critical factor in the professional development of members of an organization. The real work begins when individuals receive their feedback. The multirater feedback process can provide individuals with the information they need to set personal goals and standards, to improve their skills and keep their career on track. Once feedback is received and properly interpreted, the multirater feedback system is still not completed. There must be follow-through. Follow-through means more than creating objectives and action steps based on feedback. According to Kaplan (1993), follow-through should be viewed as a project, and as such, it should be managed actively. There are various methods for managing the process and thereby boosting the effectiveness of the multirater assessment methodology.

- Individuals are provided with the information needed to set personal action plans
- Individuals are encouraged/coached as they follow through with their personal action plans
- Individuals are held accountable for executing their personal action plans

Enhancing the Effectiveness of a Multirater Feedback System

Organizations wishing to boost the effectiveness of a multirater feedback program have several options which may include: continuously reviewing the feedback, providing feedback in the form of written responses to open ended questions, helping recipients of feedback develop an understanding of what is motivating their behaviors, and examining an employee's personal and career history (Kaplan, 1993).

If an organization decides to utilize one of these interventions, caution must be practiced to protect the employee. Organizations must choose the intervention most conducive to their climate and structure. While delving into an employee's personal and career history may seem a viable option in one organization, it may seem intrusive in another.

Impact of Multirater Feedback Programs

Multirater feedback programs are based on the assumptions that (a) multirater performance evaluations provide different perspectives from which to detect discrepancies between how we view ourselves and how others view us, (b) awareness of discrepancies enhances self-awareness, and (c) enhanced self-awareness facilitates performance. However, despite the growing popularity of multirater feedback programs, there is very little research testing these assumptions.

In one study, Hazucha, Hezlett & Schneider (1993) attempted to evaluate the impact of multirater feedback as a management development intervention. They had managers complete a management skills profile to measure skills and to give feedback. Two years later, they conducted a follow-up with 48 of those managers. They reported that managers' skills increased following multirater feedback, and that self-other agreement was greater two years after the initial multirater process. Additionally, they reported that management skills were related to later advancement. They concluded that multirater feedback is an effective management development tool. Hazucha et. al. (1993) also administered a second survey and found that the development activities which were most strongly related to skill development after multirater feedback were 1) reviewing plans and progress at least quarterly, 2) obtaining input into development plans from co-workers, and 3) receiving coaching and feedback.

London and Wohlers (1991) conducted an examination of the effects of an upward feedback intervention on profile agreement (which is the agreement between self-ratings and averaged other ratings). Profile agreement was fairly low across the sample, however it improved over a one-year period of time. These results indicate that feedback from others raises awareness of strengths and weaknesses.

While these two studies are a step in the right direction, the absence of a control or comparison group makes it difficult to determine whether the performance increases occurred as a result of receiving feedback. An additional study by Smith, London, Vasilopoulos, Reilly, Millsap, and Salvemini (1995), examined the impact of implementing an upward feedback program by comparing managers who received individualized feedback to managers who did not. These researchers found that, based on subordinates' ratings, managers whose initial level of

performance was moderate or low improved their performance over the 6-month period after having received feedback, more than the group of managers who received no individualized feedback. This (quasi-experimental) study was limited in that the researchers could not randomly assign managers to the two conditions. Thus, while multirater feedback programs seem promising, a true experimental examination of the impact on performance is still warranted.

Implications for Use by the U.S. Army

The Leader Development program of the U.S. Army is supported by the three pillars prescribed by doctrine: institutional training, operational assignments, and self-development. While the starting place for any self-development plan must be an accurate assessment of relevant strengths and weaknesses, there is currently little to guide the self-development portion of this process. Much of the research reviewed in this paper highlights the importance of others' perspectives in forming an accurate self-assessment. The multirater feedback process may be the tool the Army has been searching for to create permanent changes in its soldier's performance through increased self-awareness of strengths and weaknesses. However, there are some aspects of multirater feedback systems which the Army needs to further develop.

In general, if the Army wants a better instrument to work with, more investigation of the psychometric properties that work best with a multirater survey is necessary. In particular, are wider scales necessary so that feedback appears in a manner that is more motivating? Do behavioral anchors on survey questions add to the quality of feedback and interpretability? How can we balance the need to thoroughly cover all competencies with the need to keep the survey length reasonable, especially when individuals may be completing surveys for more than one individual? How should feedback be graphically displayed so that it is most easily interpreted?

Future research efforts should attempt to determine how the organizational structure of the Army (compared to corporate structures) influences the utilization and acceptance of feedback. How can individuals in the Army be supported during the follow-through period of remediation? Strategies and interventions, which could enhance the effectiveness of the 360 process, should be developed to meet the specific needs of the Army.

Finally, it would be beneficial to determine empirically whether multirater assessments create permanent increases in self-awareness and self-development which could contribute substantially to meeting the long term goals of an organization such as the Army.

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